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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 60/511,746

FILING DATE: *October 15, 2003*

RELATED PCT APPLICATION NUMBER: PCT/US04/25026

Certified by

Jon W Dudas

Acting Under Secretary of Commerce
for Intellectual Property
and Acting Director of the U.S.
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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. **EL 961801441 US****INVENTOR(S)**

Given Name (first and middle if any)	Family Name or Surname	Residence (City and either State or Foreign Country)
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Additional inventors are being named on the **separately numbered sheets attached hereto**

22582 60151-1346

TITLE OF THE INVENTION (500 characters max)**Chromium Complex Combination**Direct all correspondence to: **CORRESPONDENCE ADDRESS**

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ENCLOSED APPLICATION PARTS (check all that apply)

<input checked="" type="checkbox"/> Specification Number of Pages 2	<input type="checkbox"/> CD(s), Number _____
<input type="checkbox"/> Drawing(s) Number of Sheets _____	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT

<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.	FILING FEE Amount (\$)
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees.	
<input checked="" type="checkbox"/> The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 502191	80.00
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.	

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

<input checked="" type="checkbox"/> No.
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____

[Page 1 of 1]

Respectfully submitted _____ Date **10/15/03**

SIGNATURE

REGISTRATION NO. **46697**

(if appropriate)

Docket Number. **100700.0030PRO**TYPED or PRINTED NAME **Martin Fessenmaier**TELEPHONE **714-641-5100****USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Pr vsl/ n Application, Commissi ner f r Patents, P.O. B x 1450, Alexandria, VA 22313-1450.

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CHROMIUM COMPLEX COMBINATION

Field of The Invention

Nutritional supplements.

5 Background of The Invention

Numerous chromium-containing compositions are well known in the art, however, all or almost all of them suffer from one or more disadvantages. Most significantly, certain chromium-containing supplements are embroiled in toxicity issues (e.g., Cr-picoline) or have only relatively low solubility and/or bioavailability. Such difficulties may be even further compounded where chromium-containing supplements are combined with other nutritionally valuable compositions. Therefore, there is still a need to provide improved compositions for nutritional supplements that comprise chromium in a nutritionally significant amount.

Detailed Description

The inventors contemplate that chromium-containing water-soluble matrices may be advantageously combined with a variety of other nutritional supplements, wherein such combinations exhibit additive, or even synergistic, effect with respect to their intended effect. Particularly preferred chromium-containing water-soluble matrices are described in our co-pending provisional application with the serial number 60/501660 (entitled "Improved Nutraceutical Chromium Complexes with Enhanced Biological Activity and Safety"), which was filed September 9, 2003, and which is incorporated by reference herein.

Especially preferred combinations of such chromium-containing water-soluble matrices include those in which the combinations are intended to positively affect the metabolism of a person. For example, it is known that chromium positively influences glucose utilization. Therefore, all known nutritional supplements for improving glucose utilization are especially contemplated herein. Similarly, chromium is also known to improve insulin sensitivity. Therefore, all known nutritional supplements for treatment or prevention of diabetes are especially contemplated suitable for use herein. Furthermore, chromium has also been implicated in prevention and/or improvement of elevated cholesterol. Consequently, all known nutritional

supplements for treatment or prevention of heart disease or elevated cholesterol are especially contemplated appropriate. Still further, it is known in the art that chromium may also have an anabolic effect. Therefore, all known dietary supplements for increase of muscle mass are considered suitable for combination with contemplated chromium-containing matrices.

5 Exemplary suitable combinations of chromium-containing matrices include combinations with cytokinins (e.g., to reduce cholesterol, and/or improve glucose uptake). Preferred methods and compositions are described in our co-pending provisional applications with the serial number 60/499637 and docket number 22247/10600, filed August 8, 2003, both of which are incorporated by reference herein. Further particularly preferred combinations include those in
10 which chromium-containing matrices are combined with metabolic enhancers, and especially conjugated linoleic acid (CLA). Yet other preferred combinations include those in which an anabolic agent (e.g., DHEA) is combined with preferred chromium-containing matrices.

Thus, specific embodiments and applications of improved chromium complex combinations have been disclosed. It should be apparent, however, to those skilled in the art that
15 many more modifications besides those already described are possible without departing from the inventive concepts herein. The inventive subject matter, therefore, is not to be restricted except in the spirit of the present disclosure. Moreover, in interpreting the specification, all terms should be interpreted in the broadest possible manner consistent with the context. In particular, the terms "comprises" and "comprising" should be interpreted as referring to elements, components,
20 or steps in a non-exclusive manner, indicating that the referenced elements, components, or steps may be present, or utilized, or combined with other elements, components, or steps that are not expressly referenced.

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